Inventor: KADOWAKI et al.
Docket No.: 10873.1286US01
Title: OPTICAL PICK-UP HEAD, OPTICAL INFORMATION APPARATUS, AND
OPTICAL INFORMATION REPRODUCING METHOD
Attorney Name: Douglas P. Mueller
Phone No.: 612.371.5237
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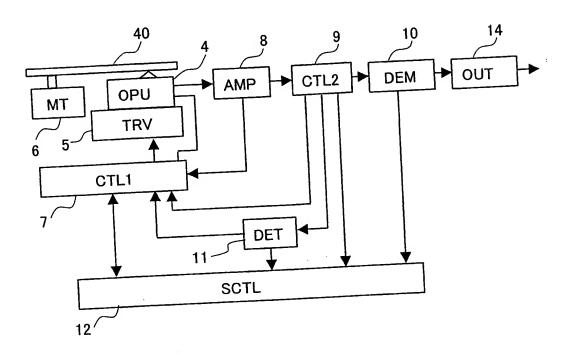


FIG. 1

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Attorney Name: Douglas P. Mueiler
Phone No.: 612.371.5237
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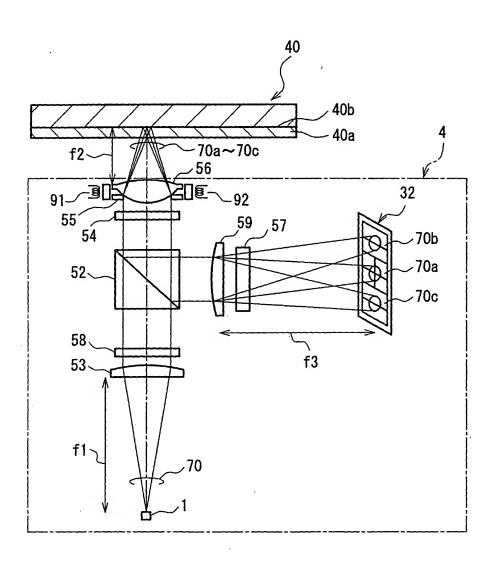


FIG. 2

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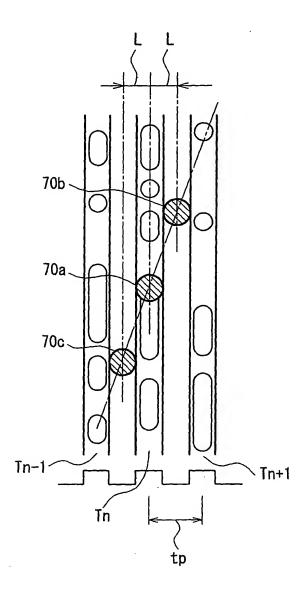


FIG. 3

Inventor. KADOWAKI et al
Docket No.: 10873.1286US01
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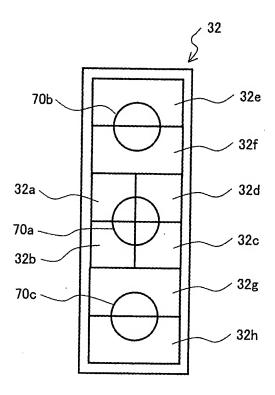


FIG.4

Inventor: KADOWAKI et al.
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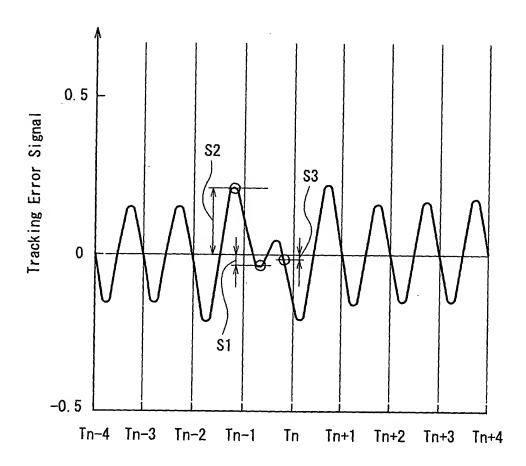


FIG. 5

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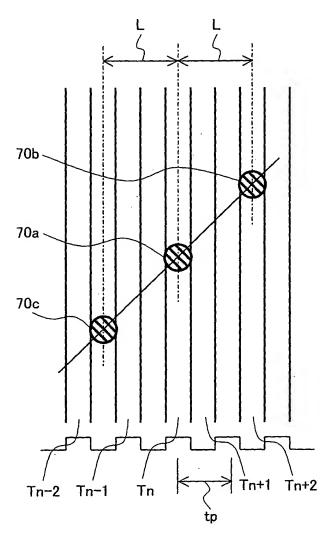
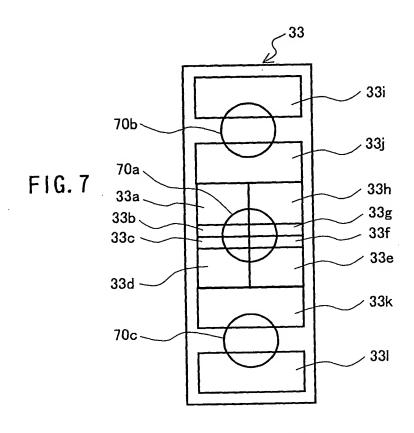
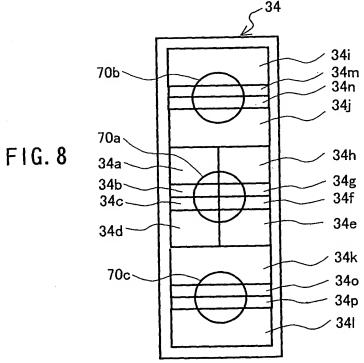


FIG. 6

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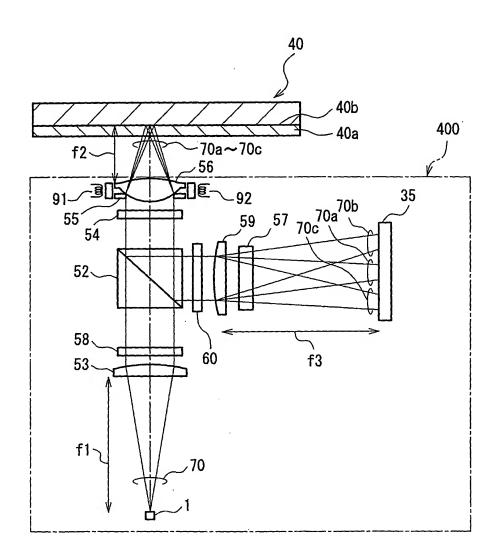
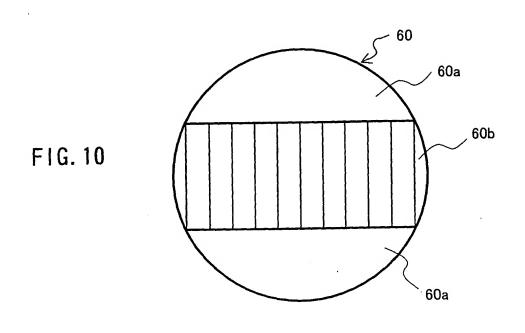
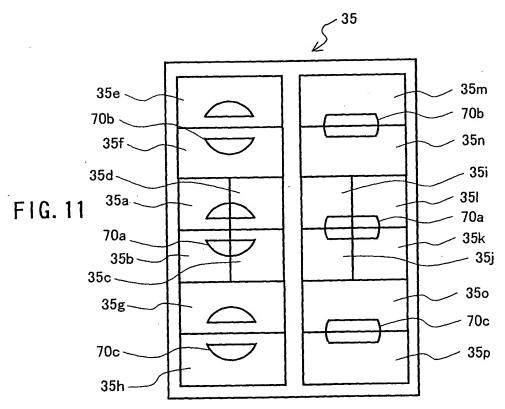


FIG. 9

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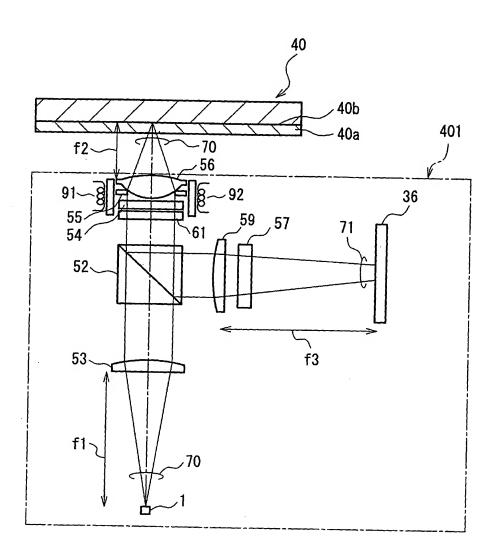


FIG. 12

Inventor. KADOWAS C. II
Docket No.: 10873.1286US01
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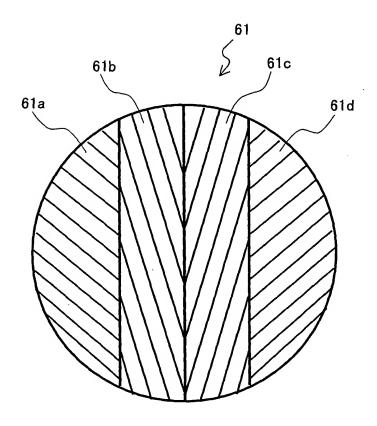


FIG. 13

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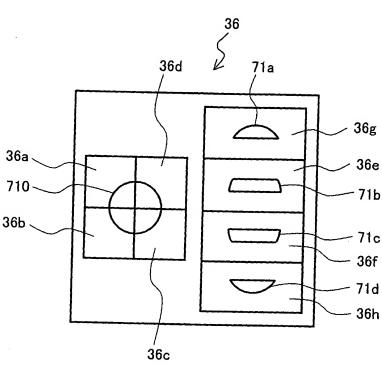


FIG. 14

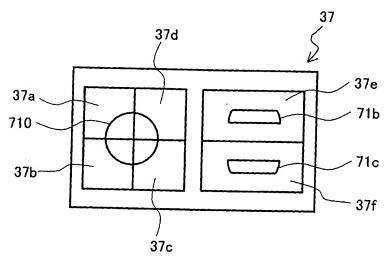
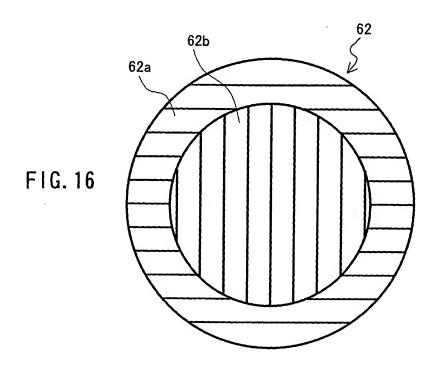
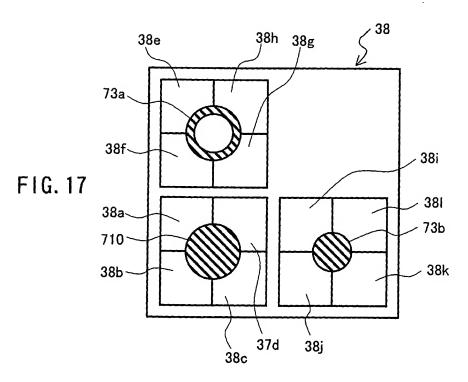


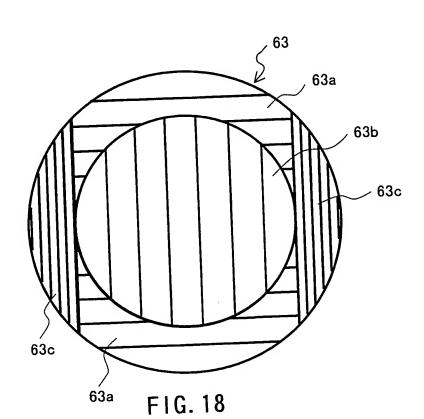
FIG. 15

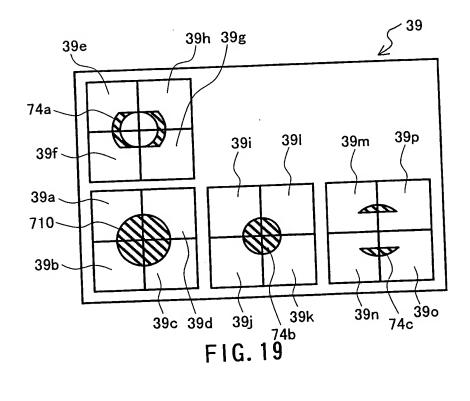
Inventor: KADOWAKI et al.
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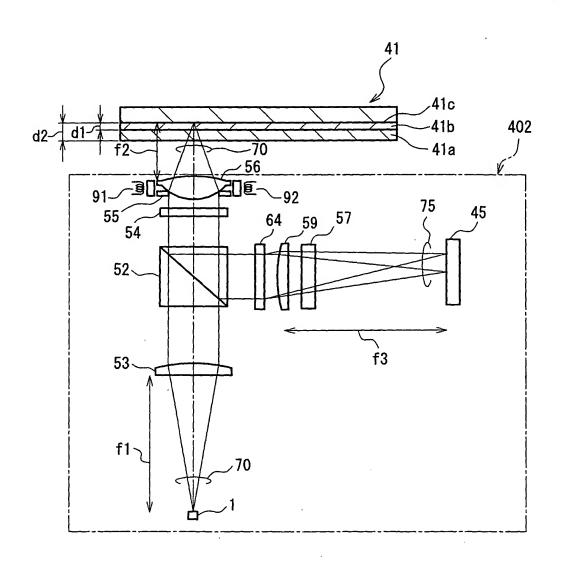


FIG. 20

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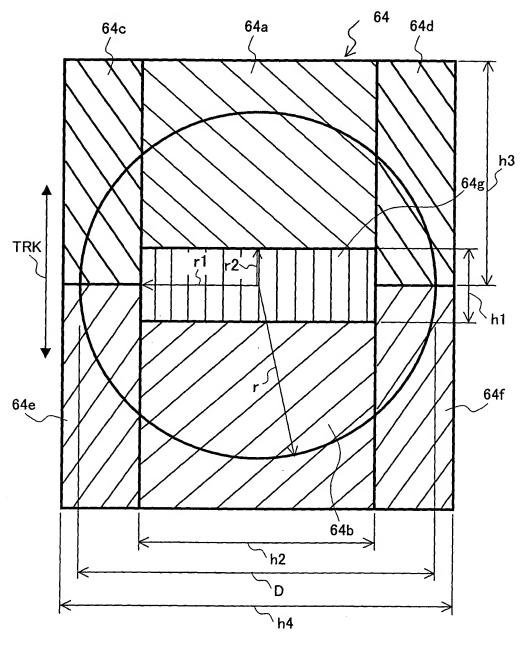
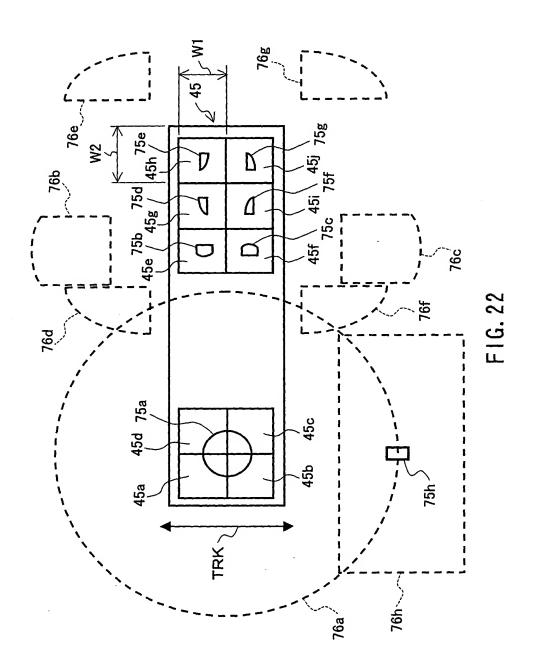


FIG. 21

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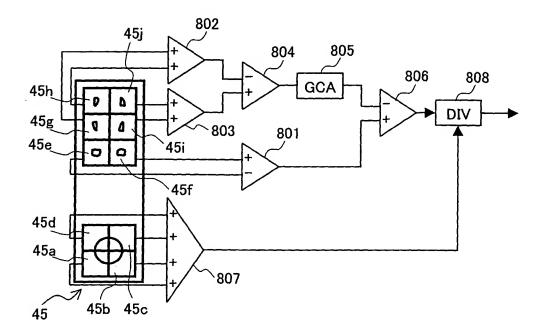
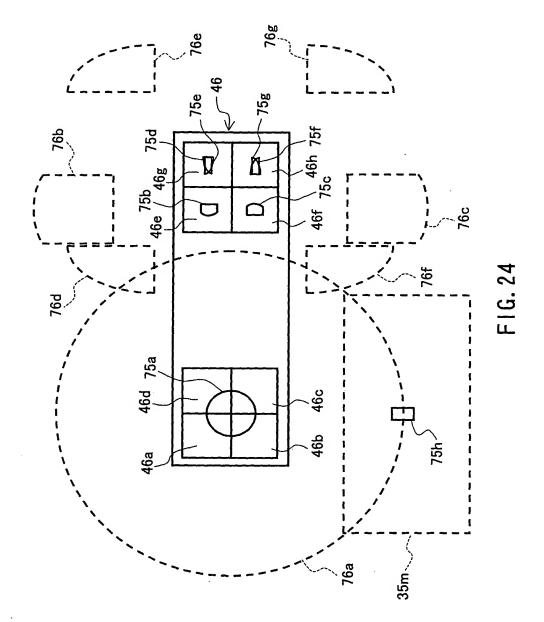
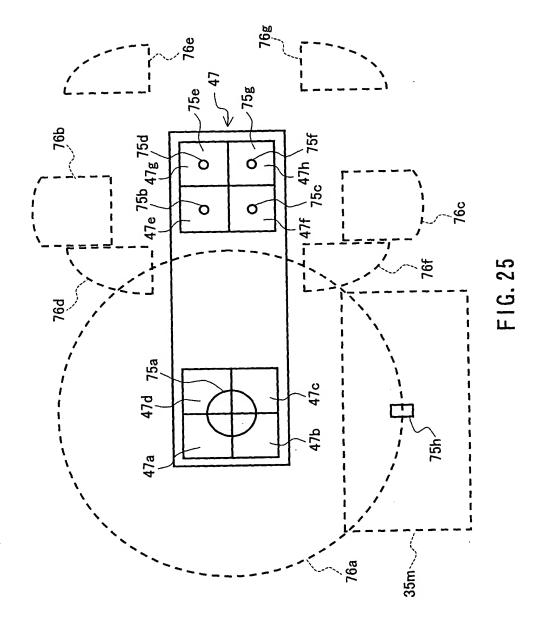


FIG. 23

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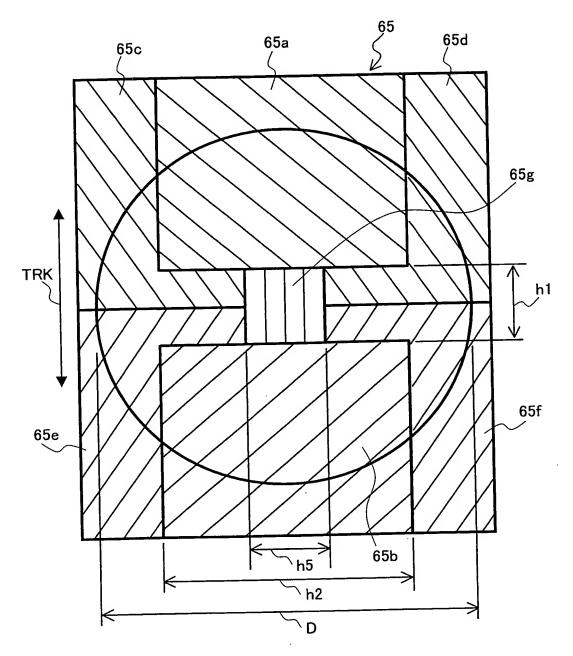


FIG. 26

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Title: OPTICAL PICK-UP HEAD, OPTICAL INFORMATION APPARATUS, AND OPTICAL INFORMATION REPRODUCING METHOD Attorney Name: Douglas P. Mueller Phone No.: 612.371.5237
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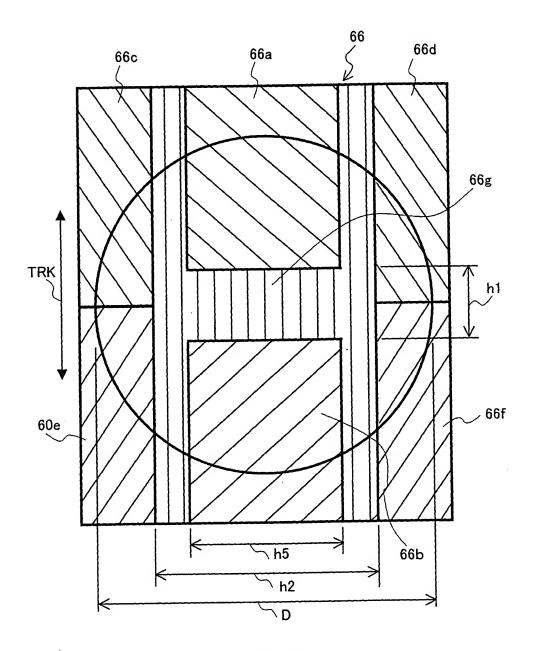


FIG. 27

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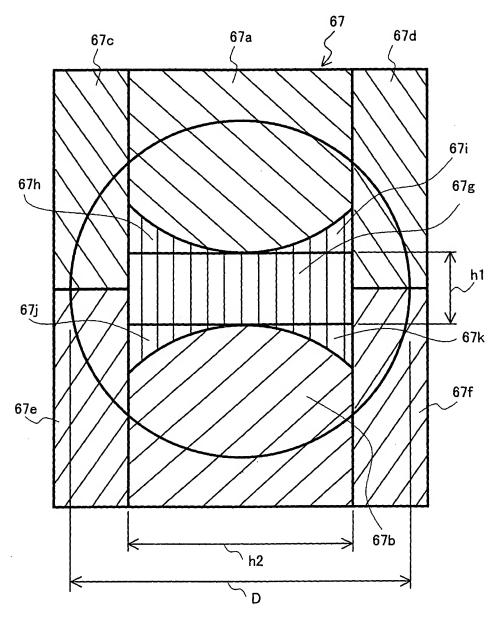


FIG. 28

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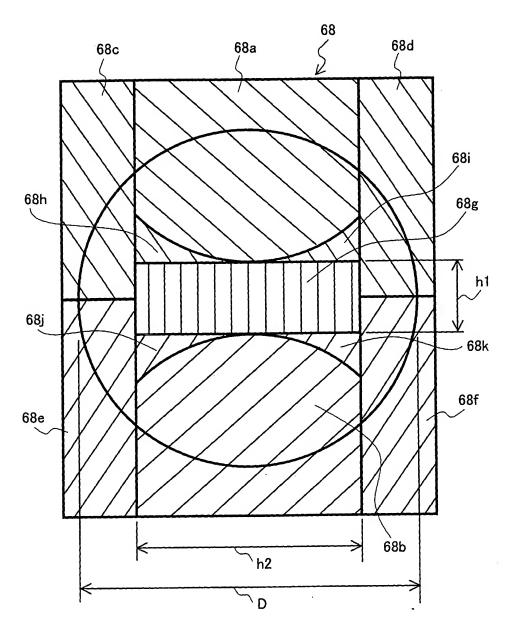


FIG. 29

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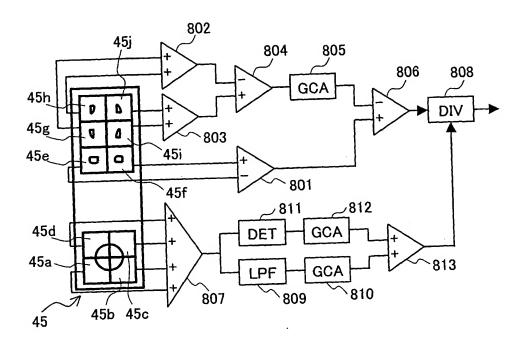


FIG. 30

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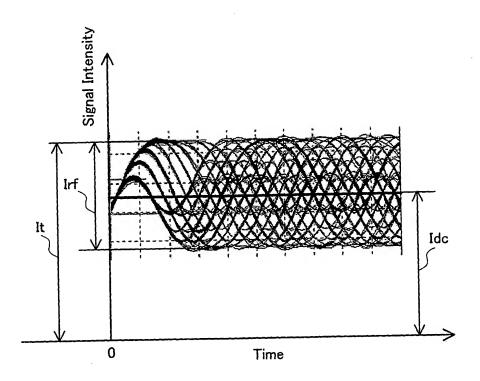


FIG. 31

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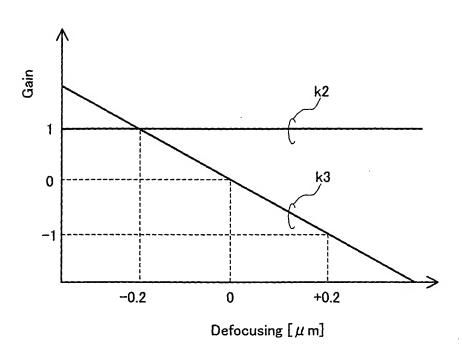


FIG. 32

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Title: OPTICAL PICK-UP HEAD, OPTICAL INFORMATION APPARATUS, AND OPTICAL INFORMATION REPRODUCING METHOD Attorney Name: Douglas P. Mueller Phone No.: 612.371.5237
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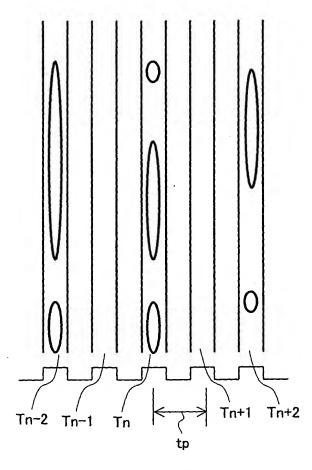


FIG. 33

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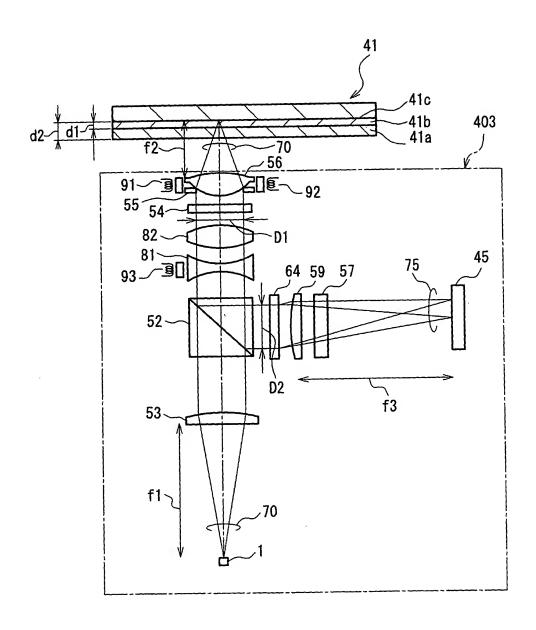


FIG. 34

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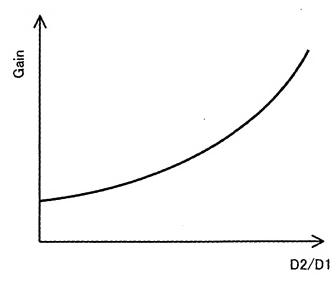


FIG. 35

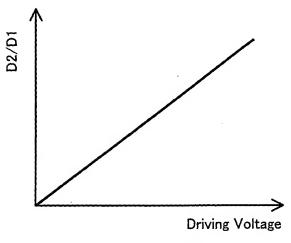


FIG. 36

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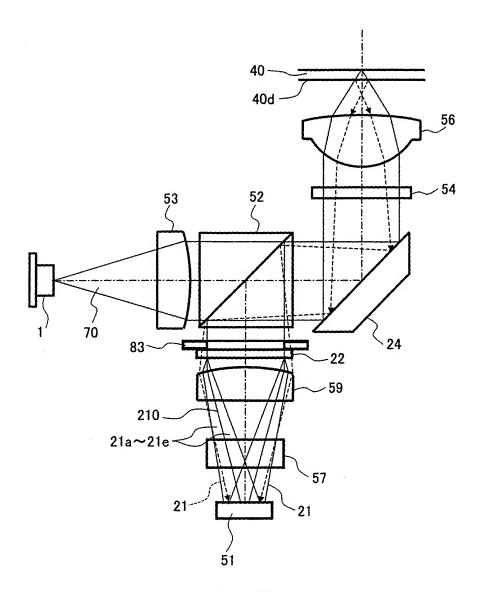


FIG. 37

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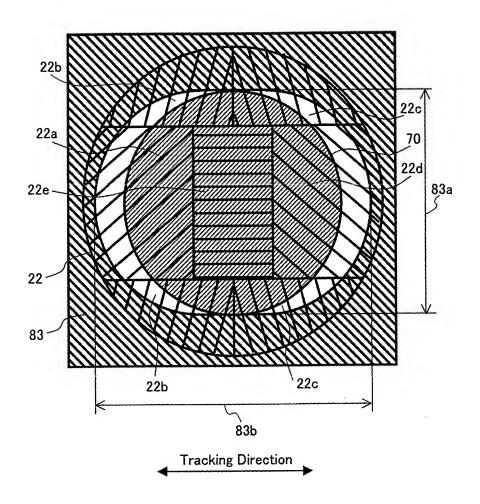


FIG. 38

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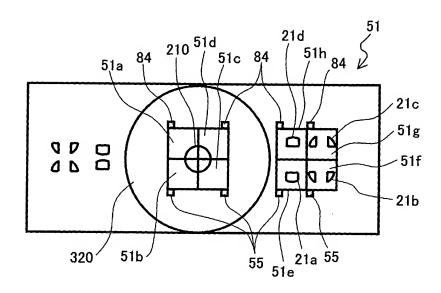


FIG. 39

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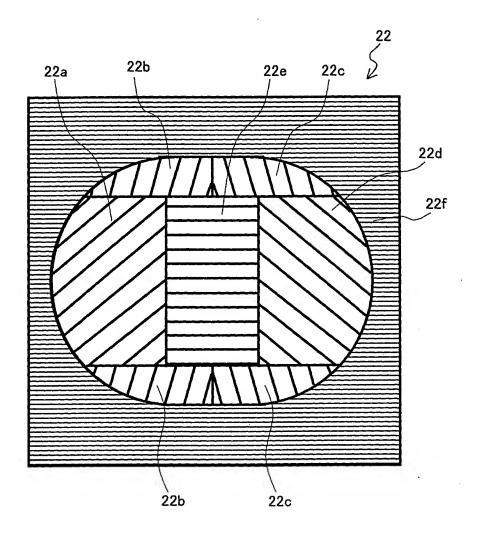
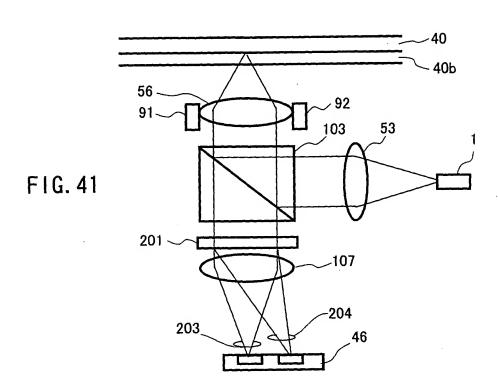
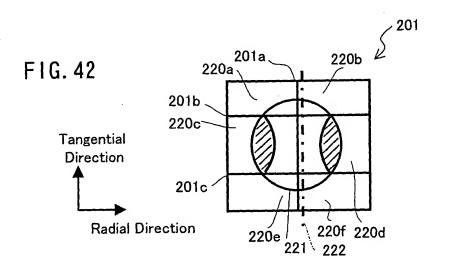


FIG. 40

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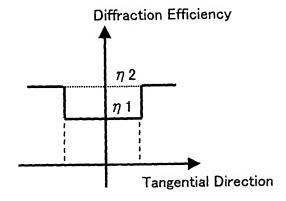


FIG. 43

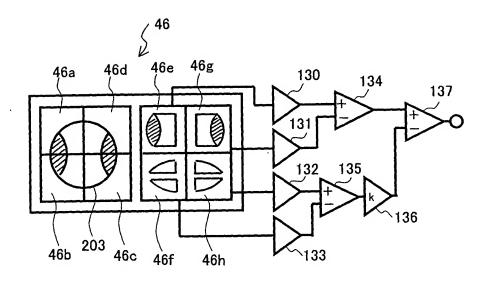
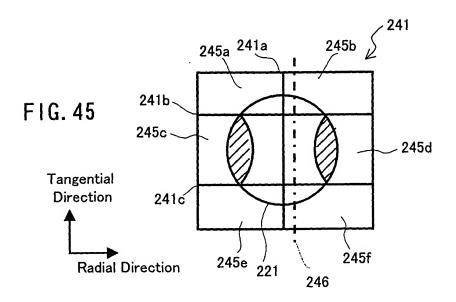
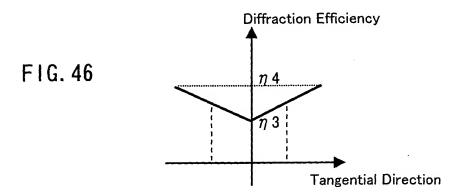


FIG. 44

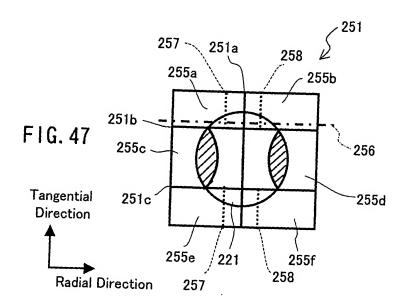
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Docket No.: 10873.1286US01
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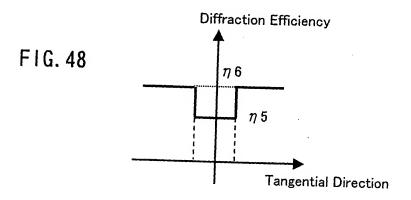
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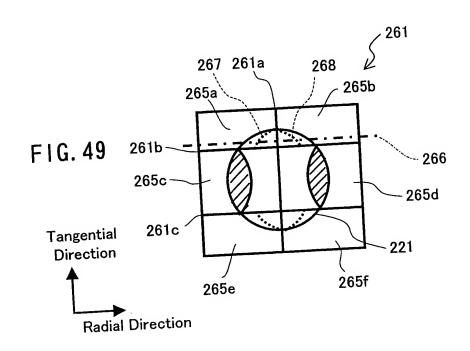


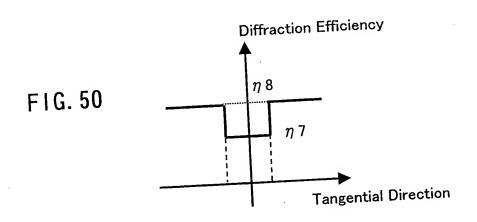
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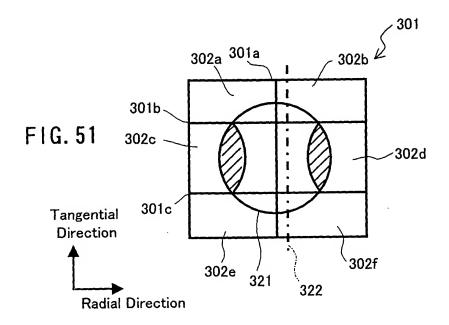
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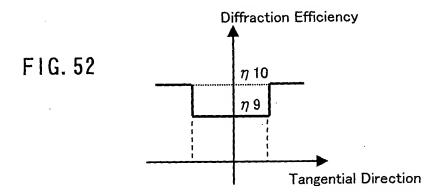




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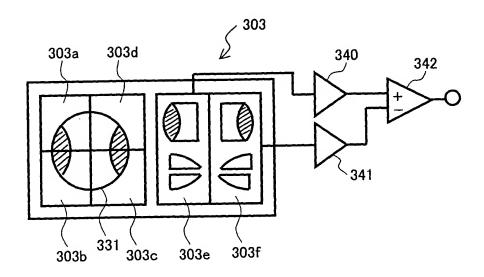


FIG. 53

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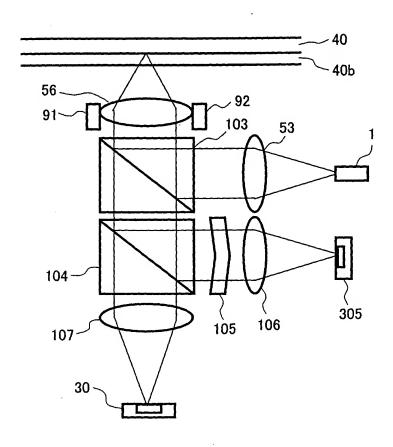
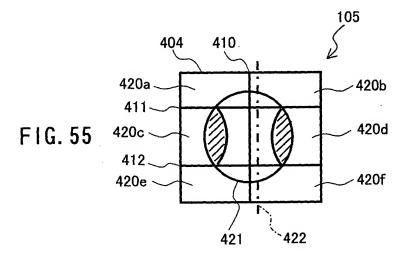
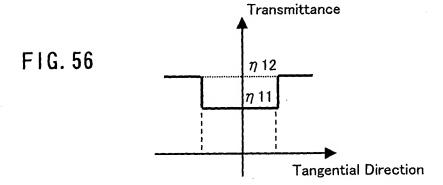


FIG. 54

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Docket No.: 10873.1286US01
Title: OPTICAL PICK-UP HEAD, OPTICAL INFORMATION APPARATUS, AND
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Attorney Name: Douglas P. Mueller
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Title: OPTICAL PICK-UP HEAD, OPTICAL INFORMATION APPARATUS, AND OPTICAL INFORMATION REPRODUCING METHOD Attorney Name: Douglas P. Mueller Phone No.: 612.371.5237
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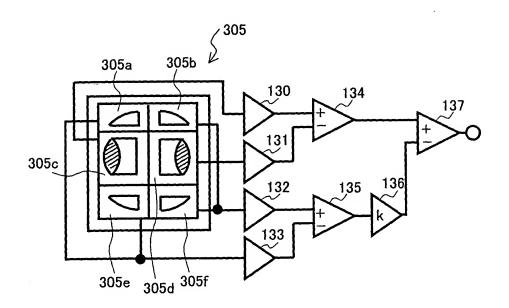


FIG. 57

Inventor: KADOWAKI et al Docket No.: 10873.1286US01
Title: OPTICAL PICK-UP HEAD, OPTICAL INFORMATION APPARATUS, AND OPTICAL INFORMATION REPRODUCING METHOD Attomey Name: Douglas P. Mueller Phone No.: 612.371.5237
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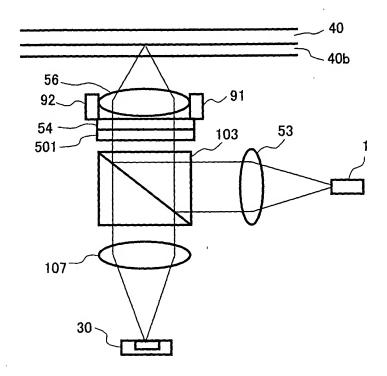
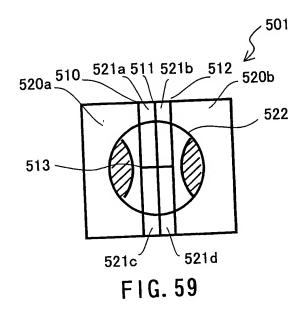


FIG. 58

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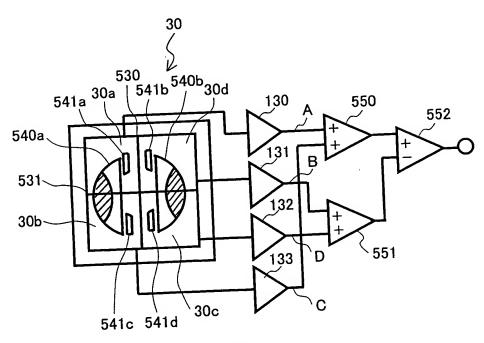
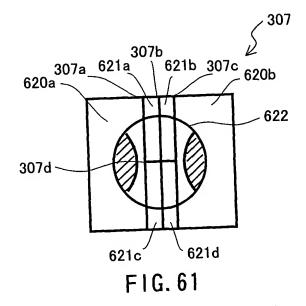


FIG. 60

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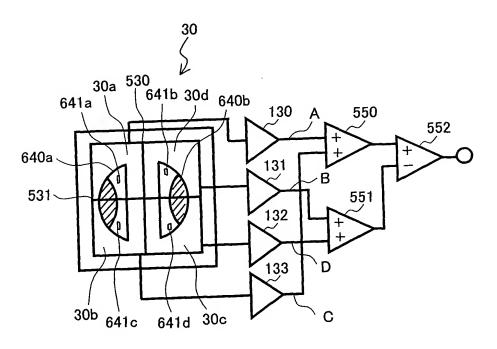


FIG. 62

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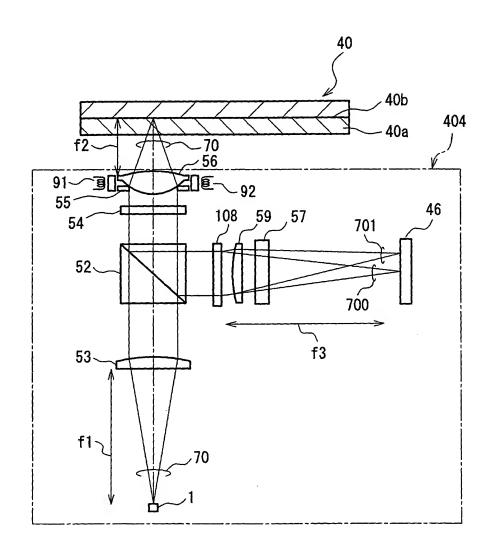


FIG. 63

Inventor. KADOWAKI et al
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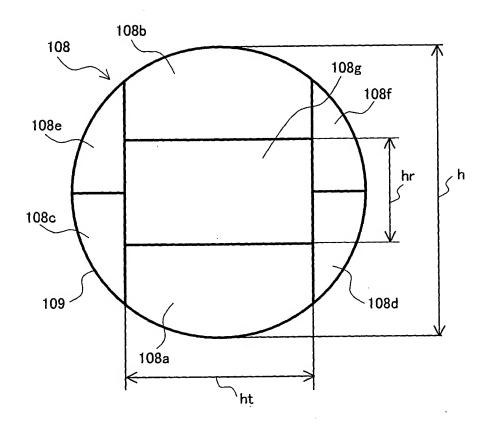


FIG. 64

Inventor: KADOWAKI et al.
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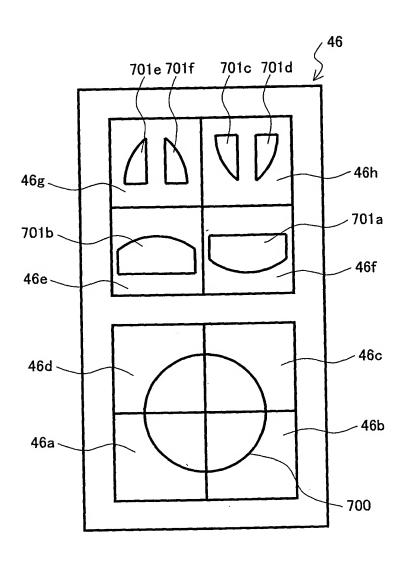


FIG. 65

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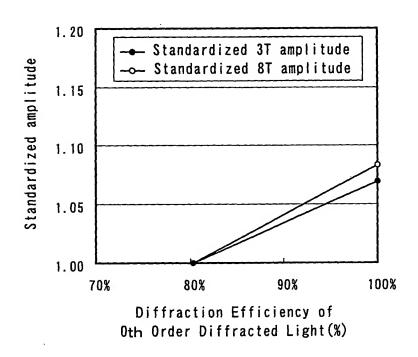


FIG. 66

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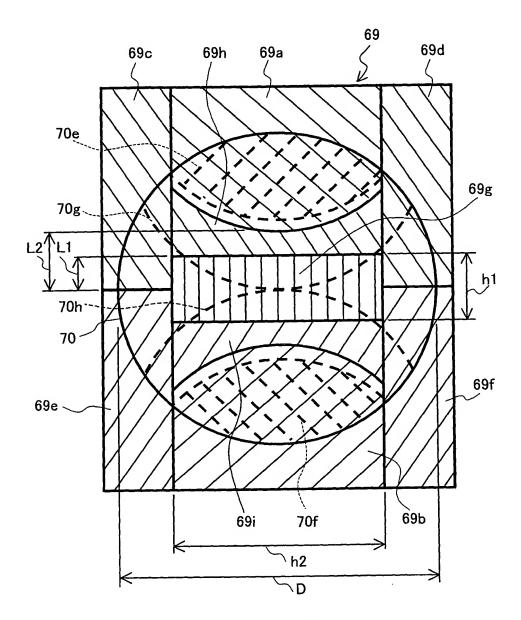
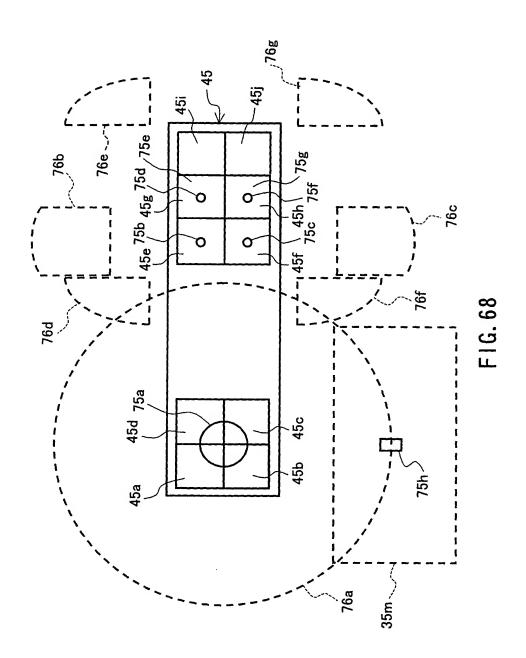
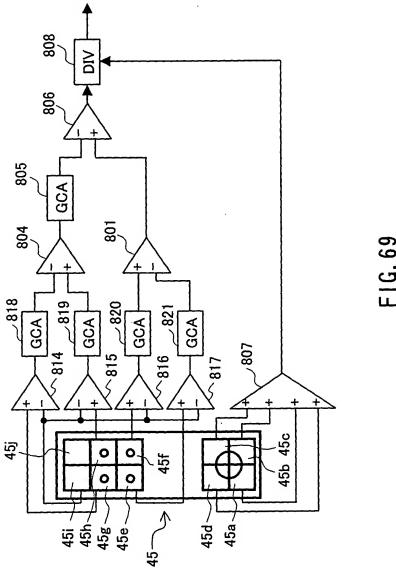


FIG. 67

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Attorney Name: Douglas P. Mueller
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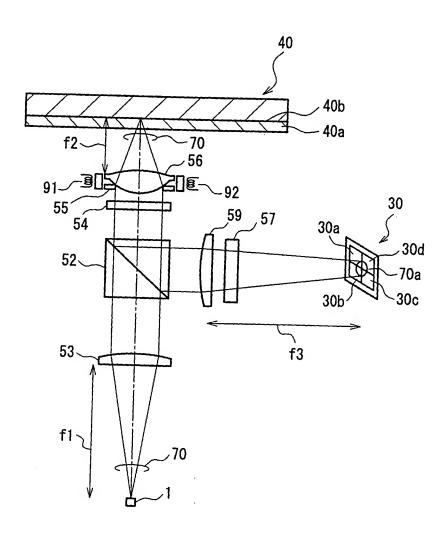


FIG. 70 PRIOR ART

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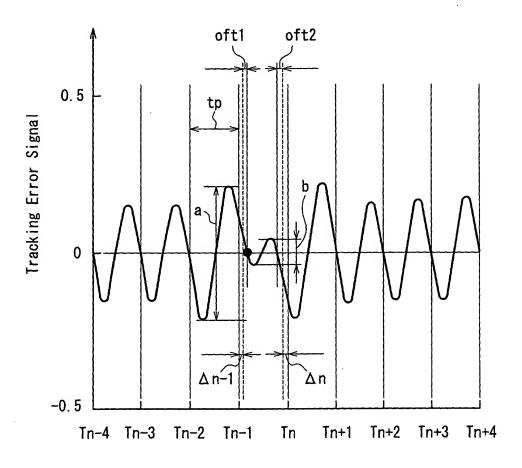


FIG. 71 PRIOR ART